

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03J3/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H03J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 766 391 A (SANYO ELECTRIC CO) 2 April 1997 (1997-04-02) column 5, line 24 - line 40; figure 2 -----	1
A	US 5 060 297 A (MA JOHN Y ET AL) 22 October 1991 (1991-10-22) column 5, line 1 - line 12 -----	9
X		1

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
1 March 2004	08/03/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat Application No

PCT/IB 03/05503

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0766391	A	02-04-1997	JP	9098102 A		08-04-1997
			EP	0766391 A1		02-04-1997
			KR	243832 B1		01-02-2000
			US	5842120 A		24-11-1998
US 5060297	A	22-10-1991	NONE			